

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP PROGRAM  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

**PROJECT INFORMATION**

<b>Project Title: Connor Catchment development</b>		<b>Project No. 10-606</b>
<b>Region/GMU: Region 6/ GMU 22 South</b>	<b>HPC: Payson Natural Resource Committee</b>	
<b>Project Type: Water Catchment development</b>		
<b>Project Description:</b> This proposed catchment development is part of a landscape water development plan in Game Management Unit (GMU) 22 South. This proposed site is located in Semidesert Grassland approximately 7 miles Northwest of Rye. The nearest available perennial water source to this proposed catchment is just over 3 miles as the crow flies. Potential use on this catchment would be Mule Deer, Whitetail deer, Elk, Bear, Javelina and a multitude of small mammals, birds and reptiles		
<b>Wildlife Species to Benefit: Mule Deer 50%, Elk 25%, Whitetail Deer 10%, Javelina, Bear and other wildlife 15%</b>		
<b>Possible Funding Partners: Mogollon Sporting Association(MSA), AZGFD, Arizona Deer Association(ADA), Arizona Elk Society(AES), Rocky Mountain Elk Foundation(RMEF), Forest Service</b>		
<b>Implementation Schedule:</b> <b>Beginning: January 2011</b> <b>Completed: July 2012</b>	<b>NEPA Compliance: (if applicable)</b> <b>Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> <b>Projected Completion Date:</b>	

**PROJECT FUNDING**

<b>SBG Funds Requested: \$ 24,000</b> <b>Cost Share Funds: \$ 10,000 – MSA</b> <b>\$ 12,701.13 – AZGFD= labor and Misc. supplies</b> <b>\$ 2,000 - Tonto National Forest= NEPA and Archeological Clearances</b> <b>Total Project Costs: \$ 48,701.13</b>
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**PARTICIPANT INFORMATION**

<b>Applicant: John Dickson, Wildlife Manager</b>  <b>Telephone: 928-479-2686</b>	<b>Address:</b> <b>7200 E. University</b> <b>Mesa, AZ 85207</b>
<b>AGFD Contact and Phone No.</b> <b>(If applicant is not AGFD personnel)</b>	
<b>Coordinated with: John Wilcox-Payson TNF, Joe Currie- AZGFD Development Branch, Ed Jahrke- AZGFD Development Branch</b>	<b>Date: 2010</b>
<b>Applicant's signature:</b>	<b>Date:</b>

**SEND COMPLETED APPLICATIONS TO:**

**Game Branch  
2221 W. Greenway Rd.  
Phoenix, AZ 85023**

**WAS PROJECT PRESENTED TO THE LOCAL HPC?**      **YES**   X        **NO**       

**HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS?** No.  
**IF SO WAS IT FUNDED?**  
N/A

**NEED STATEMENT/PROBLEM ANALYSIS:**

The need for reliable water in GMU 22 South, specifically in the area of this proposed catchment, is critical in the management of the species listed above. Limited water availability in this area coincides with the suppressed wildlife populations of the area. Currently there is ephemeral water sources in some of the drainages and low producing springs, but no available water in the summer when wildlife depend on them the most.

**PROJECT OBJECTIVES:**

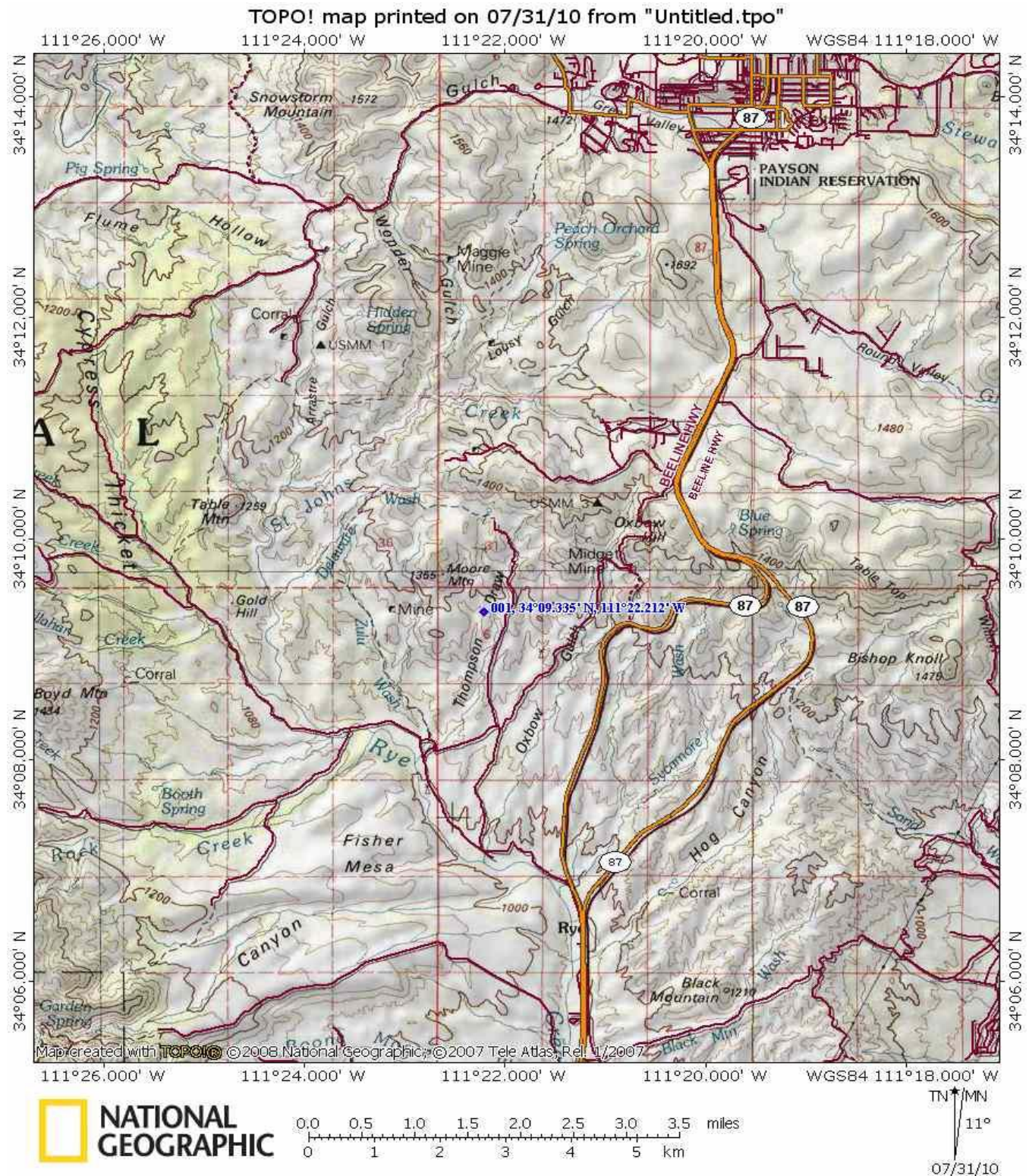
This project will provide a reliable water source to Mule Deer, Whitetail, Elk, Javelina, Bear and other wildlife in this area of GMU 22 South. As part of the landscape analysis for defining reliable water, I used a list of criteria. The criteria for reliable waters are those waters that are perennial, not ephemeral or seasonal, not stock tanks or windmills or ephemeral springs. A spring that has water in the winter months but not the summer months, for example is ephemeral and not reliable to wildlife during the critical summer fawning months. Another example of an ephemeral water is a stock tank that goes dry during certain times of the year, or a windmill that only operates when cattle are in that particular pasture. There are several stalk tanks and springs in the area, but when visited in the summer months, these water sources fail to have available water.

**PROJECT STRATEGIES:**

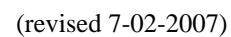
This development will follow our strict standards of water catchment design and installation. It will consist of two 6,000 gallon fiberglass tanks placed ground level. A metal apron on a metal sub-frame will be placed over the tanks for water collection and protection of the tanks. A standard elk trough will be placed adjacent to the apron that is self leveling with the tanks. This system does not have any float valves or mechanisms to fail which requires little to no maintenance. The apron will be fenced to prevent elk from accessing the top of the apron and causing damage. The entire system will then be fenced with piperail fence to exclude cattle. (refer to diagram and list of material).

## PROJECT LOCATION:

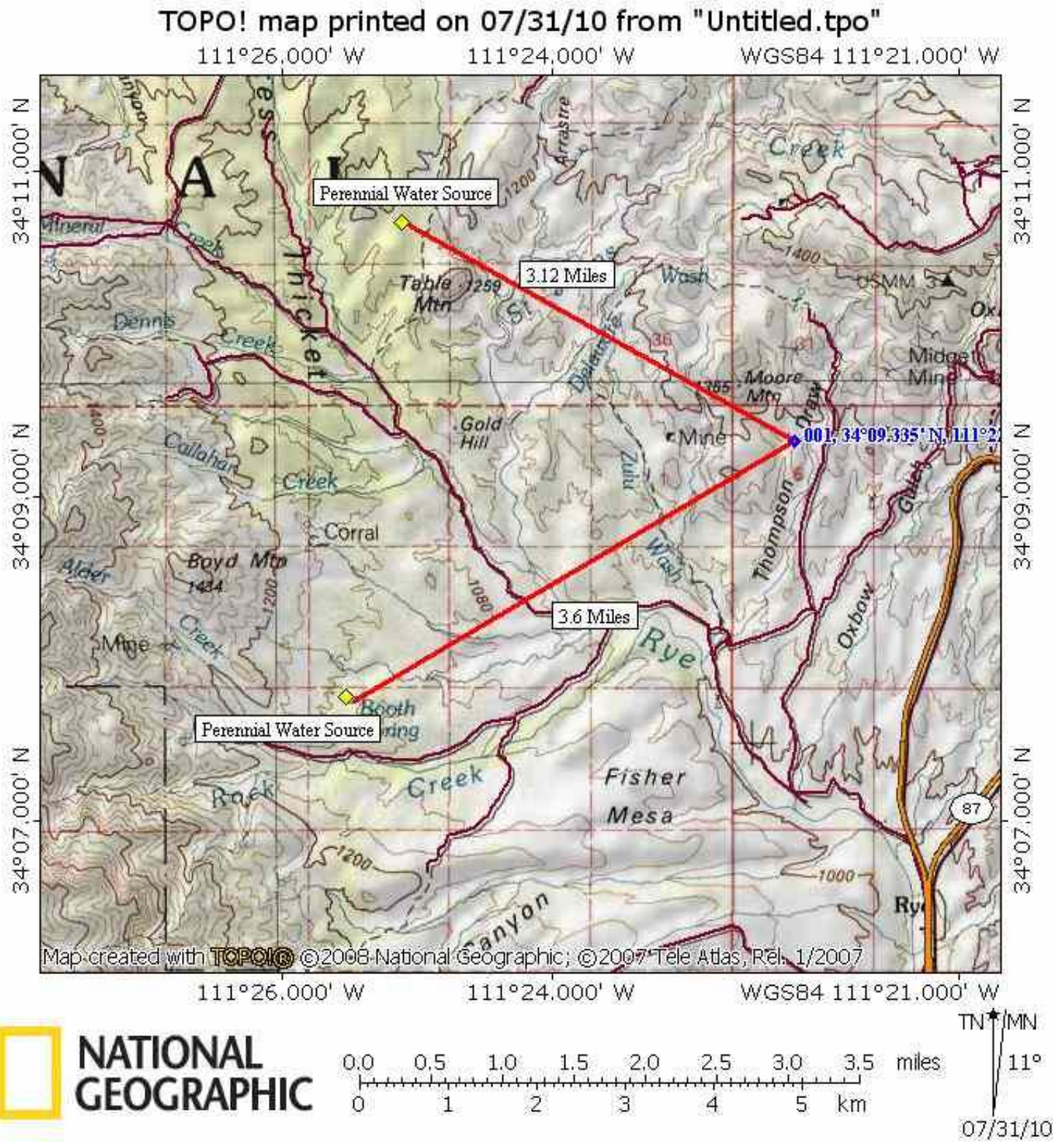
This project is located in the Tonto Basin Ranger District near Roosevelt Lake, just south of Cherry Creek Road. Township 4N, Range 14E, Section 23. See attached map.

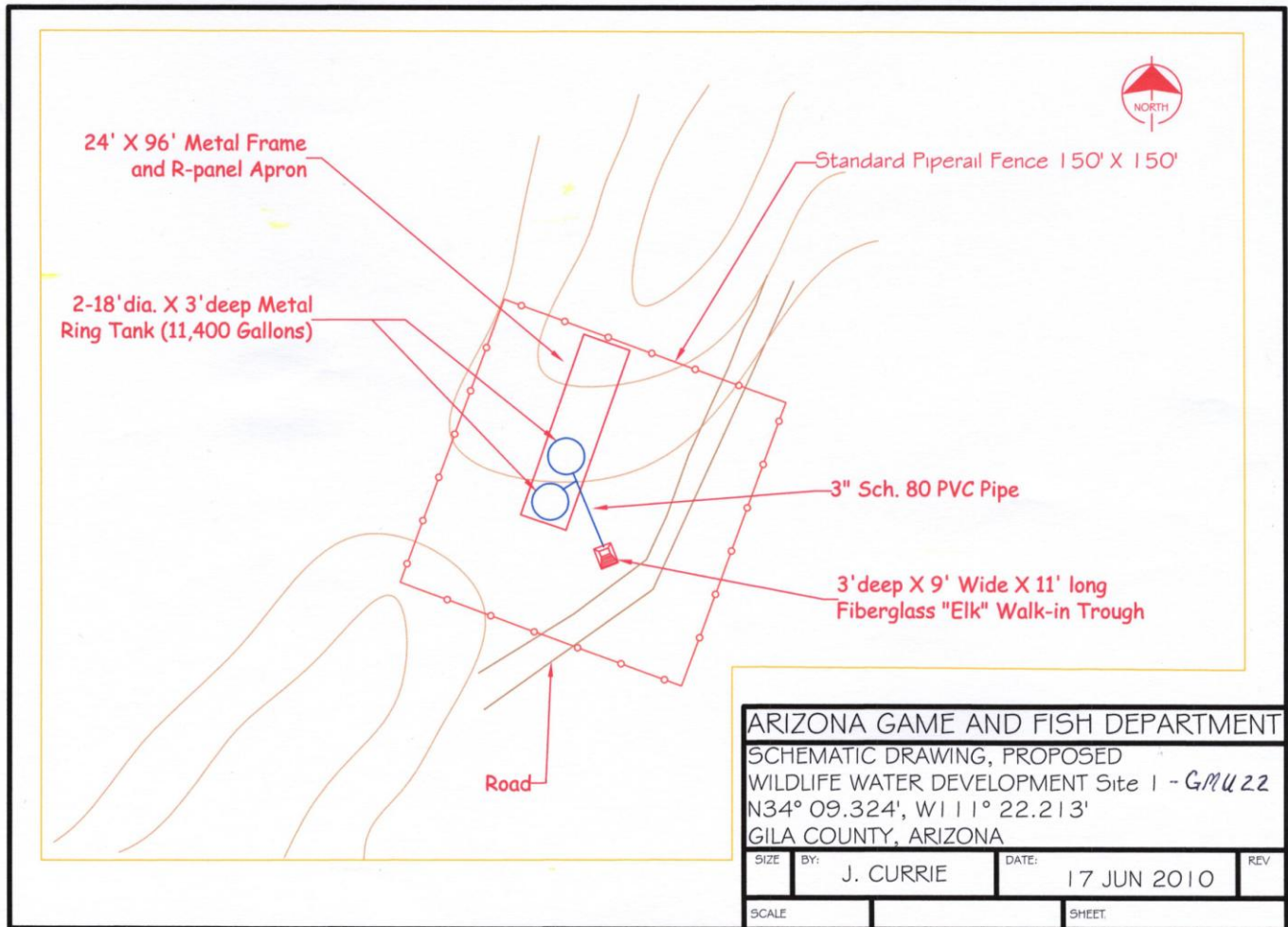












**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):** United States Forest Service, Payson Ranger District.

**IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT? N/A**

**HABITAT DESCRIPTION:**

Arizonan Upland Sonoran Desert Scrub with some dispersed juniper. The elevation is about 2500 feet.

**ITEMIZED USE OF FUNDS: Connor Catchment**

<b>COOPERATOR AND PROJECT COMPONENT</b>	<b>COST-SHARE DOLLARS AVAILABLE</b>	<b>SBG FUNDS REQUESTED</b>
<b>Arizona Game &amp; Fish Department (SBG Funds)</b> ■ Funding for implementation of on-the-ground work/material		<b>\$24,000</b>
<b>Mogollon Sporting Association (MSA)</b>	<b>\$10,000</b>	
<b>Arizona Game &amp; Fish Department</b> ■ Labor provided by AZGFD development branch and miscellaneous materials	<b>\$12,701.13</b>	
<b>USDA – Tonto Nat'l Forest, Payson Ranger District</b> ■ Provided administrative support including labor/funding to produce NEPA and Archeological clearances.	<b>\$2,000</b>	
<b>TOTALS:</b>	<b>\$24,575.23</b>	<b>\$24,000</b>
<b>RATIO OF COST SHARE:SBG FUNDS 1.02:1</b>		
<b>TOTAL PROJECT COST = \$48,701.13</b>		



**Anticipated Costs are:**

- |  |              |
|--|--------------|
| • 2 – 3’ deep X 18’ dia, Fiberglass Ring Tank (\$ 10,009.74 ea.) | \$ 20,019.48 |
| • 1 – Fiberglass “Elk” Walk-in Trough -                          | \$ 3,896.64  |
| • 1 – 24’ Standard Fiberglass Gutter -                           | \$ 735.54    |
| • 1 – 24’ X 96’ Metal Frame & R-panel Apron -                    | \$ 6,197.81  |
| • 1 – 150’ X 150’ Heavy duty Piperail Fence -                    | \$ 3,101.66  |
| • 1 – Plumbing   | \$ 750.00    |
| • 1 – Miscellaneous Materials                                    | \$ 2,000.00  |

Total = \$ 36,701.13

**Materials Total: 36,701.13**

**TOTAL GRANT FUNDS REQUESTED: \$24,000**

**AGFD installation labor/misc. materials: \$12,701.13**

**USDA Forest Service, T.N.F –NEPA,**  
**Archeological Clearances: \$2,000**

**Total Costs: \$48,701.13**

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

**Arizona Game & Fish Department:** Installation labor, in-kind labor writing proposal, coordinate & engineer projects, completion report, site visits and maintenance after completion.

**USDA T.N.F, Tonto Basin Ranger District:** NEPA and Archeological Clearances.

**Non-Profit Organization (possible funding partners):** Mogollon Sporting Association (MSA), Arizona Deer Association, Arizona Elk Society

**PROJECT MONITORING PLAN:**

No monitoring will be required other than regular water level checks and maintenance, to be conducted by the Department. Monitoring and maintenance are funded through the Federal Aid Wildlife Restoration monies administered by the Development Branch

**PROJECT MAINTENANCE:**

This tank should not require much maintenance other than checking the water level, checking for water leaks and cleaning out debris from the trough when necessary.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

Project Author

**WATER DEVELOPMENT PROJECTS (see attached worksheet):**



## **ARIZONA GAME AND FISH DEPARTMENT** **WATER DEVELOPMENT WORKSHEET**

**PROJECT NAME:** Connor Catchment Development

- 1) Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?" No
- 2) Please list the Development Branch personnel and date coordinated with for this project.  
Joseph Currie and Ed Jahrke
- 3) What is the estimated annual inches of precipitation for the area? (mark one)  
☐ 2-4   ☐ 4-6   ☐ 6-8   ☐ 8-10   ☐ 10-12   ☒ 12-14   ☐ 14-16   ☐ >16
- 4) Is there a perennial water source available to big game within four miles of this project?  
☒ YES (please complete #5 below)   ☐ NO (skip #5 below)
- 5) For the accessible, perennial water source nearest this project:  
Name of water source: Booth Spring and a Forest Service Guzzler  
Type of water source (catchment, spring, dirt tank, etc.): Spring and Guzzler  
Ownership of water source: USFS, Payson Ranger District  
Distance in miles from project: 3.6 and 3.12 Miles
- 6) Is the target wildlife species a result of transplant efforts? ☐ YES   ☒ NO
- 7) Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner. N/A
- 8) Please provide the following information about access to the proposed site:  
Type of access (mark one): ☐ 2x4 vehicles   ☒ 4x4 only   ☐ foot only\*\*  
\*\*If foot access only: Distance in miles:   Approx. hiking time:  
-- Does access to this site require crossing private or tribal lands? ☐ YES   ☒ NO  
-- Please describe any restrictions to public access:
- 9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.
- |   |              |
|---|--------------|
| • 2 – 3' deep X 18'dia, Fiberglass Ring Tank (\$ 10,009.74 ea.) | \$ 20,019.48 |
| • 1 – Fiberglass "Elk" Walk-in Trough -                         | \$ 3,896.64  |
| • 1 – 24' Standard Fiberglass Gutter -                          | \$ 735.54    |
| • 1 – 24' X 96' Metal Frame & R-panel Apron -                   | \$ 6,197.81  |
| • 1 – 150' X 150' Heavy duty Pipherail Fence -                  | \$ 3,101.66  |
| • 1 – Plumbing  | \$ 750.00    |
| • 1 – Miscellaneous Materials                                   | \$ 2,000.00  |
| Total =   | \$ 36,701.13 |
- 10) Was a site visit completed? ☒ Yes   ☐ No  
If Yes, please list personnel that attended and date. Joe Currie, John Dickson on June 16, 2010